AMENDMENT UNDER 37 C.F.R. § 1.111 Attorney Docket No.: Q87381

Application No.: 10/530,751

Please delete the present Abstract of the Disclosure.

Please add the following new Abstract of the Disclosure:

An apparatus for producing an optimum command to process a command to be input to a

servo control section in order to operate a control object having a vibrating element without a

vibration in such a manner that a delay from a command is reduced as greatly as possible. An

optimum command producing apparatus for inputting a command, processing the command in

such a manner that a control object implements a desirable operation and outputting an optimum

command value to a servo control apparatus, includes an N-order filter processing section for

carrying out an N-order filter processing for the command and calculating values from a 1-rank

differential to an (N-1)-rank differential of the command subjected to the filter processing, and

an arithmetic unit for adding a value obtained by multiplying an output of the N-order filter

processing section by a gain.

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